

# nature masterclasses

Stage	Course	Length(hour)	No. of Modules	No. of Lessons
1	<a href="#">Experiments: From Idea to Design</a>	8.5	4	25
2	<a href="#">Persuasive Grant Writing</a>	7.5	3	17
	<a href="#">Finding Funding Opportunities</a>	3.5	1	8
3	<a href="#">Managing Research Data to Unlock its Full Potential</a>	10	4	24
	<a href="#">Data Analysis: Planning and Preparing</a>	4	2	13
	<a href="#">Data Analysis: Conducting and Troubleshooting</a>	5	3	16
	<a href="#">Interpreting Scientific Results</a>	3.5	1	12
4	<a href="#">Writing a Research Paper</a>	4.5	6	59
	<a href="#">Writing a Research Paper: 2nd Edition</a>	14.5	5	76
	<a href="#">Publishing a Research Paper</a>	5.5	8	74
	<a href="#">Writing and Publishing a Review Paper</a>	1.5	1	16
	<a href="#">Research Integrity: Publication Ethics</a>	8	3	21
	<a href="#">Focus on Peer Review</a>	3.5	4	46
5	<a href="#">Narrative Tools for Researchers</a>	8.5	3	21
	<a href="#">Advancing Your Scientific Presentations</a>	10	4	26
	<a href="#">Effective Science Communication</a>	6.5	1	13
	<a href="#">Creating successful research posters</a>	4.5	1	11
6	<a href="#">Getting an Academic Research Position</a>	9	4	32
7	<a href="#">Networking for Researchers</a>	8	4	23
	<a href="#">Introduction to Collaboration</a>	2.5	1	8
	<a href="#">Participating in a Collaboration</a>	5	1	8
	<a href="#">Leading a Collaboration</a>	11.5	3	29
Total		145	67	578

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## Index – Modules and Lessons

### NMO Courses & approximate length

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- Writing a Research Paper: 2nd Edition – 14.5 hours
- Publishing a Research Paper – 5.5 hours
- Writing and Publishing a Review Paper – 1.5 hours
- Research Integrity: Publication Ethics – 8 hours
- Focus on Peer Review – 3.5 hours
- Experiments: From Idea to Design – 8.5 hours
- Persuasive Grant Writing – 7.5 hours
- Finding Funding Opportunities – 3.5 hours
- Managing Research Data to Unlock its Full Potential – 10 hours
- Data Analysis: Planning and Preparing – 4 hours
- Data Analysis: Conducting and Troubleshooting – 5 hours
- Interpreting Scientific Results – 3.5 hours
- Narrative Tools for Researchers – 8.5 hours
- Effective Science Communication – 6.5 hours
- Creating successful research posters – 4.5 hours
- Advancing Your Scientific Presentations – 10 hours
- Getting an Academic Research Position – 9 hours
- Networking for Researchers – 8 hours
- Introduction to Collaboration – 2.5 hours
- Participating in a Collaboration – 5 hours
- Leading a Collaboration – 11.5 hours

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## NMO courses by stages of the research cycle

Design Research	Secure Funding	Experiment and Analyse	Write and Publish	Share and Disseminate	Develop your Career	Work with Others
Experiments: From Idea to Design	Persuasive Grant Writing	Managing Research Data to Unlock its Full Potential	Writing a Research Paper	Narrative Tools for Researchers	Getting an Academic Research Position	Networking for Researchers
	Finding Funding Opportunities	Data Analysis: Planning and Preparing	Publishing a Research Paper	Advancing your Scientific Presentations		Introduction to Collaboration
		Data Analysis: Conducting and Troubleshooting	Writing and Publishing a Review Paper	Effective Science Communication		Participating in a Collaboration
		Interpreting Scientific Results	Focus on Peer Review	Creating Successful Research Posters		Leading a Collaboration
			Research Integrity: Publication Ethics			

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## Research Cycle Stage: **Design Research**

### Experiments: From Idea to Design

#### **Course details**

8.5 hours

4 modules, 25 lessons

10 – 30-minute lessons

#### **Module 1. Foundations of experimental design – 1h30**

Welcome to the course

About this course

The scientific method

Robust experimental design advances your field of research

Thoughtful research motivations for impactful experiments

Module summary

#### **Module 2. Developing your motivation, assumptions, and hypotheses – 2h**

Introduction

Explore potential research motivations

Select a research motivation that matches you

Refine your research motivations

Identify assumptions, formulate hypotheses, and make predictions

Module summary

#### **Module 3. Assembling your experimental plan – 3h**

Introduction

Set up key variables

Plan your replicates, controls, and validations

Select your methods, tools, and techniques

Choose your protocols

Navigate resources, regulations, and data processing

Module summary

#### **Module 4. Utilising your experimental design – 2h**

Introduction

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Seek feedback to refine your experimental design  
Check your design through preliminary experiments  
Share your experimental design  
Module summary  
Course summary

## Additional resources

- **Blog post:** <https://masterclasses.nature.com/mastering-experimental-design/24025492>

## Research Cycle Stage: **Secure Funding**

### Persuasive Grant Writing

#### Course details

7.5 hours  
3 modules, 17 lessons  
15-minute lessons

#### **Module 1. Before starting your grant application – 2h**

Welcome to the course  
Why are many grant applications not funded?  
Why use narrative tools when writing a grant application?  
The format of grant application and the purpose of its sections  
Module summary

#### **Module 2. Targeting your audience – 2h**

Introduction  
Why should you understand your funder?  
How to research your funder?  
Create a message that is relevant to your funder  
Module summary

#### **Module 3. Creating a narrative – 3h30**

Introduction  
Support your key message  
Select the characters of your grant application  
Create a narrative structure within your sections

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Tell your research story throughout the entire application

Module summary

Course summary

## Additional resources

**Blog post:** <https://masterclasses.nature.com/persuasive-grant-writing/20003200>

## [Finding Funding Opportunities](#)

### Course details

3.5 hours

1 module, 8 lessons

10 – 30-minute lessons

### Module 1. Finding Funding Opportunities – 3h30

Welcome to this course

About this course

Understanding the funding landscape

Identify your circumstances and research needs

Search for funding opportunities

Create your shortlist

Choose the best funding for you

Course summary

### Additional resources

**Blog post:** <https://masterclasses.nature.com/interpreting-scientific-results/23924010>

## Research Cycle Stage: **Experiment and Analyse**

## [Managing Research Data to Unlock its Full Potential](#)

### Course details

10 hours

4 modules, 24 lessons

15-minute lessons

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## **Module 1. Welcome and introduction – 2h**

Welcome to the course

Key concepts

Why data management matters

Complying with relevant data policies

Module summary

## **Module 2. Creating and maintaining your Data Management Plan – 1h30**

Introduction

Preparing to create a DMP

Creating a DMP

Module summary

## **Module 3. Managing data in the short and long term – 3h30**

Introduction

Storing data for the short term

Choosing file formats for data storage

Organising and naming your data files

Collecting rich and comprehensible metadata

Checking the quality of your data

Storing data for the long term

Module summary

## **Module 3. Sharing your data – 3h**

Introduction

What to share, when and with whom?

Setting terms for access and use of your data

How to share your data

Sharing your data in a repository

Module summary

Course summary

## **Additional resources**

**Blog post:** <https://masterclasses.nature.com/new-courses-for-researchers-2020/18407574>

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## Data Analysis: Planning and Preparing

### Course details

4 hours

2 modules, 13 lessons

15-minute lessons

### Module 1: Introduction to Data Analysis and the importance of planning – 2h

Welcome to the course

Key concepts in data analysis

Why planning data is important

Challenges in data analysis

Challenges in preparing and planning your data analysis

Creating a data analysis plan

Module summary

### Module 2: Preparing your data for analysis – 2h

Introduction

Collate your analytic dataset

Quality check your analytic dataset

Preliminary analysis: Explore your data

Module summary

Course summary

### Additional resources

**Blog post:** <https://masterclasses.nature.com/data-analysis-planning-and-preparing/20248988>

## Data Analysis: Conducting and Troubleshooting

### Course details

5 hours

3 modules, 16 lessons

15-minute lessons

### Module 1. Introduction to Data Analysis – 1h30

Welcome to the course

Key concepts in data analysis

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Why is effective data analysis important?

Challenges in data analysis

Module summary

## **Module 2. Exploring your data and reviewing your analysis plan – 1h30**

Introduction

Explore your data numerically

Explore your data visually

Review your data analysis options and plan

Module summary

## **Module 3. Analysing your data – 2h**

Introduction

Analyse your data and test your hypothesis

Confirm and troubleshoot analyses

Present your findings and express limitations

Module summary

Course summary

## **Additional resources**

**Blog post:** <https://masterclasses.nature.com/data-analysis-conducting-and-troubleshooting/23091744>

## [Interpreting Scientific Results](#)

### **Course details**

3.5 hours

1 module, 12 lessons

10- 20-minute lessons

## **Module 1. Interpreting Scientific Results – 3h30**

Welcome to this course

About this course

Understand your findings

Identify your key message

Address your research aims

Test your hypothesis

Put your findings into context

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Get constructive feedback from others  
What to include in your interpretation  
Build your interpretation  
Adapt your interpretation  
Course summary

## **Additional resources**

**Blog post:** <https://masterclasses.nature.com/interpreting-scientific-results/23091746>

## **Research Cycle Stage: Write and Publish**

### Scientific Writing and Publishing

#### Writing a Research Paper: 2nd Edition

#### **Course details**

14.5 hours  
5 modules, 76 lessons  
10- 50-minute lessons

#### **Module 1. Understanding the elements of an effective research paper - 2h**

Welcome to the course  
About this course  
The structure of a research paper  
What makes an effective research paper  
Overview of the strategies for writing an effective research paper  
Narrative tools and research papers – how they work together  
Principles of scientific writing style  
Key points about the strategies for writing an effective research paper  
Module summary

#### **Module 2. Applying narrative tools to your research paper - 3h**

Introduction  
The key message  
The audience  
The story arc  
Steps to develop your story arc  
The evidence  
Module summary

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## **Module 3. Using the principles of scientific writing style for your research paper - 2h**

Introduction

Introduction to informative writing

Pitfalls that can undermine the informativeness of your research paper

Master the basics of informative writing

Take informative writing to the next level

Apply the key points of informative writing to your research paper

Introduction to concise writing

Pitfalls that can undermine the conciseness of your research paper

Master the basics of concise writing

Take concise writing to the next level

Apply the key points of concise writing to your research paper

Introduction to well-structured writing

Pitfalls that can undermine the structure of your research paper

Master the basics of well-structured writing

Take well-structured writing to the next level

Key takeaways for ensuring well-structured writing

Introduction to engaging writing

Pitfalls that can undermine the engaging of your research paper

Master the basics of engaging writing

Take engaging writing to the next level

Key takeaways for writing engagingly

Module summary

## **Module 4. Writing your research paper section by section - 5h30**

Introduction

Tools to help you plan and write the sections of your paper

The purpose of the methods section

What to include in the methods section

How to structure the methods section

The specific writing style of the methods section

Common pitfalls in the methods section

Key points about writing the methods section

The purpose of the results section

What to include in the results section

How to structure the results section

The specific writing style of the results section

Common pitfalls in the results section

Key points about writing the results section

The purpose of the discussion section

What to include in the discussion section

How to structure the discussion section

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The specific writing style of the discussion section  
Common pitfalls in the discussion section  
Key points about writing the discussion section  
The purpose of the conclusion section  
How to structure the conclusion section  
The specific writing style of the conclusion section  
Common pitfalls in the conclusion section  
Key points about writing the conclusion section  
The purpose of the introduction section  
What to include in the introduction section  
How to structure the introduction section  
The specific writing style of the introduction section  
Common pitfalls in the introduction section  
Key points about writing the introduction section  
Module summary

## **Module 5. Finalising your research paper for submission - 2h**

Introduction  
Assemble an appealing title  
Compose an effective abstract  
Revise your paper before submission  
Module summary  
Course summary

### **Additional resources:**

**Video:** [Why should researchers take this course on Writing a Research Paper?](#)

## [Writing a Research Paper](#)

### **Course details**

4.5 hours  
6 modules, 59 lessons  
15-minute lessons

## **Module 1. What makes a great paper? – 0h50**

Welcome to the course  
Why publish your research?  
Starting to write and using storytelling to craft your paper  
What do editors look for in a great paper?  
There is no magic formula to writing a paper  
Editor's favourite papers

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Frequently asked questions

Module summary

## **Module 2. Elements of writing style – 0h25**

THE ABC of effective writing

Common issue in writing style

Knowledge check: Effective writing

Building a paragraph

Frequently asked questions

Module summary

## **Module 3. Titles and abstracts – 0h40**

How to reach your audience

The value in crafting a great title

How to write effective titles

Things to avoid in titles

Knowledge check: Identify an effective title (life sciences example)

Knowledge check: Identify an effective title (physical sciences example)

Choosing keywords for your paper

How to write an abstract

Things to avoid in abstracts

Knowledge check: Improve an abstract

Module summary

## **Module 4. From introduction to conclusion – 0h40**

Writing a paper: The big picture

Writing the introduction

Writing the methods section

Writing the results section

Data deposition

Writing the discussion section

Writing the combined results and discussion section

Writing the conclusion

Things to avoid: Overhyping your work

Knowledge check: Write a paragraph!

Frequently asked questions

Module summary

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## **Module 5. Data management – 0h50**

Managing data

Risks of data mismanagement

Creating a data management plan

The importance of sharing data

Meaningful metadata

Sharing data

Poll: How do you access and share data?

The rise of data journals

Knowledge check: Data ownership

Frequently asked questions

Module summary

## **Module 6. Data presentation – 0h55**

Principles of data presentation

Determine your main message

Find the best format for your data

Knowledge check: Box plot or bar chart?

Organize your data

Choose a representative image

Visual clarity

Use colour wisely

Frequently asked question

Module summary

Course summary

## [Publishing a Research Paper](#)

### **Course details**

5.5 hours

8 modules, 74 lessons

15-minute lessons

## **Module 1. Authorship and authors' responsibilities – 0h40**

Welcome to the course

Principles of authorship

Author contributions

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Authorship in collaborative teams and consortia

Knowledge check: Describe authorship

Knowledge check: Who should be an author?

Authorship disputes

Author identity and researcher identifiers

How to start a conversation on authorship

An editor's experience: Honorary authors

Frequently asked questions

Module summary

## **Module 2. Selecting a journal for publication – 0h35**

Poll: Your criteria for selecting a journal

Key considerations for selecting a journal

Why and where to publish?

Publishing in open access journals

Avoiding predatory journals

Case study: Bohannon's sting

Frequently asked question

Module summary

## **Module 3. Submitting your paper – 0h30**

Submitting your manuscript

Presubmission enquiries at scientific journals

Scientific cover letters

An editor's experience: The submission process

What constitutes a conflict of interest?

Knowledge check: Conflicts of interest

Knowledge check: Competing interests

Frequently asked question

Module summary

## **Module 4. Understanding peer review – 1h05**

A brief history of peer review

Types of peer review

The benefits and limitations of peer review

How editors select referees

When to accept or decline an offer to peer review

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An editor's experience: Being a first-time peer reviewer  
What makes a great peer review report?  
How to think like a peer reviewer when you read a paper  
How editors assess referee reports  
Rewards for referees  
Frequently asked questions  
Module summary

## **Module 5. Journal decisions – 1h**

Types of editorial decisions after peer review  
Common reasons for rejection at scientific journals  
Knowledge check: Editorial decisions  
How to respond to peer review comments  
Making an appeal  
The dos and don'ts of appealing  
What happens after acceptance at Nature Research journals?  
Post-publication criticism  
Module summary

## **Module 6. The editorial process – 0h15**

Different editorial processes  
The editorial process at top-tier journals  
Knowledge check: What do editors look for?  
Publishing a paper is a team effort  
Frequently asked questions  
Module summary

## **Module 7. Measuring impact – 0h40**

An introduction to research metrics  
Article-level metrics  
Researcher-level metrics  
Focus on the h-index  
Institutional-level metrics  
Knowledge check: Metrics  
Module summary

## **Module 8. Plagiarism and other ethical issues – 0h45**

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Why some researchers behave unethically  
Defining plagiarism and tools to detect it  
Knowledge check: Using copyright-protected material  
Focus on duplicate submissions  
Inappropriate citations  
A case study of misconduct  
Poll: Misconduct - what would you do?  
Post-publication corrections  
Retractions  
Module summary  
Course summary

## [Writing and Publishing a Review Paper](#)

### **Course details**

1.5 hours  
1 module, 16 lessons  
15-minute lessons

### **Module 1. Writing and publishing a review paper – 1h30**

Welcome to the course  
What is a review paper?  
What makes a great review?  
Editors' favourite Nature Reviews papers  
Dos and don'ts for a good review  
Commissioned and unsolicited reviews  
How to write the outline of a review paper  
The structure of a review paper  
Selecting the primary literature for your review paper  
Refereeing review papers  
The editorial process at Nature Reviews journals  
Nature Reviews Disease Primers  
An editor's experience: Submitting a review  
Reflection: Remember an inspiring review  
Frequently asked questions  
Course summary

### **Additional resources**

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**Blog post:** <https://masterclasses.nature.com/make-the-most-of-the-scientific-writing-and-publishing-course/16568290>

## Research Integrity: Publication Ethics

### **Course details**

8 hours of learning

3 modules, 21 lessons

10–40-minute lessons

### **Module 1. Preparing to publish with integrity – 1h30**

Welcome to this course

About this course

Identify a reputable journal

Publish with integrity

Module summary

### **Module 2. Publication ethics during manuscript preparation – 4h45**

Introduction

Publish with transparency

Uphold image integrity

Ensure data integrity and availability

Reuse materials with relevant permissions

Reuse materials appropriately

Ensure accurate citations and avoid plagiarism

Consider your author list

Confirm your research declarations

Verify your publication declarations

Module summary

### **Module 3. Publication ethics after submission – 1h45**

Introduction

Navigating manuscript revisions

Handle post-publication issues

Module summary

Course summary

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## Additional resources

**Video:** coming soon

## [Focus on Peer Review](#)

### Course details

3.5 hours

4 parts, 46 lessons

10-minute lessons

### **Module 1. Your role as peer reviewer – 0h40**

The peer review process

The importance of peer review

The benefits of being a peer reviewer

Peer reviewer's responsibilities

The reasons why I peer review

Deciding whether to peer review a paper

Experiences of peer review

Routes to becoming a peer reviewer

Module summary and next steps

Useful links and further reading

### **Module 2. The peer review report – 1h10**

What do you think of this report?

Preparing to review

Review strategies

First impressions of the paper

How I approach peer review

The review: Titles, abstracts & introductions

The review: Methods

The review: Results and discussion

The tone of your report

The structure of your report

Major and minor points in a review paper

Writing a summary for a peer review report

Common problems during peer review

Frequently asked questions

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Module summary and next steps

Useful links and further reading

## **Module 3. Ethics in peer review – 0h50**

Which of these actions is ethically questionable?

Peer review ethics

Conflicts of interest in peer review

Intellectual theft and plagiarism in peer review

Implicit bias in peer review

Confidentiality in peer review

Why peer review gets a bad press

Knowledge check: Potential issues when peer reviewing

Module summary and next steps

Useful links and further reading

## **Module 4. Variations and innovations in peer review – 0h50**

Types of peer review

Registered reports

Different journals' requirements

Variations in peer review practices

Knowledge check: Reviewing large data sets

Peer reviewing a review paper

Innovative approaches to peer review

Peer review: Where next?

Module summary and next steps

Useful links and further reading

## **Research Cycle Stage: Share and Disseminate**

### [Effective Science Communication](#)

#### **Course details**

6.5 hours

1 module, 13 lessons

10–30-minute lessons

#### **Module 1. Effective Science Communication - 6h30**

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Welcome to the course

About this course

Set your communication goals

Understand your audience

Reach your audience

Identify your key message

Build on your key message to create a story

Apply strategies to communicate science to non-specialists

Write about your research

Present your research

Communicate your research on social media

Discuss your research in a media interview

Course summary

## **Additional resources**

**Videos:** [Why is science communication important?](#) // [Why should you take this course?](#) // [Why should researchers take this course?](#)

## [Narrative Tools for Researchers](#)

### **Course details**

8.5 hours

3 modules, 21 lessons

15-minute lessons

### **Module 1. Why use a story? – 2h**

Welcome to the course

Why use narrative tools to communicate your research?

How can stories advance your research and career?

Why are stories powerful?

What makes a story?

Module summary

### **Module 2. Building your story – 4h**

Introduction

Identify your key message

Back up your key message

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Choose a structure for your story

Build your characters

Help the audience along

Put the pieces together

Module summary

## **Module 3. Refining your story – 2h30**

Introduction

Understand your audience

Adapt to your audience

Plan for constraints

Edit your story

Module summary

Course summary

## **Additional resources**

**Blog post:** <https://masterclasses.nature.com/narrative-tools-for-researchers/18760532>

## [Advancing Your Scientific Presentations](#)

### **Course details**

10 hours

4 modules, 26 lessons

15-minute lessons

## **Module 1: Overcoming your research presentation challenges – 2h**

Welcome to the course

Identify the benefits of giving effective presentations

Tailoring to your audience can focus your presentation

Use narratives tools to communicate your research story

Module summary

## **Module 2: Developing the story behind your talk – 2h30**

Introduction

Identify your key message

Select the evidence to support your key message

Identify your characters

# nature masterclasses

Choose and use a narrative structure

Bring the elements of your story together

Module summary

## **Module 3: Building an engaging slide deck – 2h30**

Introduction

Create the outline of your slide deck

Set up your slide deck

Craft your components: Pitfalls, principles, and text

Craft your components: Visual and interactive elements

Refine and review your slide deck

Module summary

## **Module 4: Preparing and navigating your talk – 3h**

Introduction

Prepare the practicalities of your talk

Prepare and rehearse your talk

Prepare for Q&A

Prepare for the unknown

Module summary

Course summary

## **Additional resources**

**Blog post:** <https://masterclasses.nature.com/narrative-tools-for-researchers/20183138>

## [Creating Successful Research Posters](#)

### **Course details**

4.5 hours

1 module, 11 lessons

10 – 35-minute lessons

### **Module 1. Creating successful research posters - 4.5h**

Welcome to the course

About this course

What makes a great poster?

Identify your goal and audience

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Select your key message and supporting material  
Structure your poster, conversation and handout  
Prepare the text for your poster  
Decide on the layout of your poster  
Design and format your poster  
Prepare your conversation and handout  
Course summary

## Additional resources

**Videos:** [Why should researchers take this course?](#) // [Why should you take this course?](#) // [Why are research posters important?](#)

## Research Cycle Stage: **Develop Your Career**

### [Getting an Academic Research Job](#)

#### Course details

9 hours  
4 modules, 32 lessons  
10 – 30-minute lessons

#### **Module 1. Exploring your values, interests, skills, and career goals – 2h**

Welcome to this course  
About this course  
The importance of self-reflection  
Establish your values  
Examine your interests  
Identify your skills  
Consider your personal and practical priorities  
Set your goals  
Module summary

#### **Module 2. Finding a research position – 2h**

Introduction  
Build your professional profile  
Find postdoc and faculty opportunities  
Understand the role and requirements

# nature masterclasses

Choose which opportunities to apply to

Module summary

## **Module 3. Applying for a research position – 2h30**

Introduction

Prepare for the application process

Compile your CV

Write and format your CV

Prepare your academic cover letter

Prepare supplementary materials

Apply for the position

After the application

Module summary

## **Module 4. Excelling at the interview – 2h30**

Introduction

Interview preparation: Logistics and questions

Interview preparation: Presentations and meetings

Attending the interview

After the interview

Handling an offer

Module summary

Course summary

## **Additional resources**

**Videos:** [Why should researchers take this course?](#) // [Why should you take this course?](#)

## **Research Cycle Stage: Work with Others**

### [Networking for Researchers](#)

#### **Course details**

8 hours

4 modules, 23 lessons

15-minute lessons

#### **Module 1. Why Network? – 2h**

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Welcome to the course

Networking challenges and conversations

Why network

Networking opportunities

Module summary

## **Module 2. Getting ready to network – 2h**

Introduction

Articulate your professional identity

Build your online presence

Do your research

Prepare your pitch and your questions

Module summary

## **Module 3. Connect with networking contacts - in person and online – 2h30**

Introduction

Reaching out to a new contact

Crafting your communications for maximum effect

Meeting in person

Meeting online

Making the most out of chance encounters

Module summary

## **Module 4. Nurturing and harnessing the power of your network – 1h30**

Introduction

Harness the immediate power of your network

Nurture your network for the future

Module summary

Course summary

## **Additional resources**

**Blog post:** <https://masterclasses.nature.com/networking-for-researchers/20006428>

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## Effective Collaboration in Research

### Introducing Collaboration

#### **Course details**

2.5 hours

1 module, 8 lessons

15-minute lessons

#### **Module 1. Introducing Collaboration – 2h30**

Welcome to the course

About this course

The rise of collaborations

Different types of collaboration

Benefits and challenges of collaboration

Working with industry

Use collaborations to reach your goals

Course summary

### Participating in a collaboration

#### **Course details**

5 hours

1 module, 8 lessons

15-minute lessons

#### **Module 1. Participating in a collaboration – 5h**

Welcome to the course

About this course

Keeping the project on track

Working in a new research team

Tools to collaborate

Leveraging your collaborative experience

Troubleshooting tips for new collaborators

Course summary

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## [Leading a collaboration](#)

### **Course details**

11.5 hours

3 module, 29 lessons

15-minute lessons

### **Module 1. Initiating and leading a collaboration – 5h**

Welcome to the course

About this course

Do you need a collaboration?

How to choose your collaborators

How to approach potential collaborators

Effective leadership for collaborations

Setting up a collaboration framework

Establishing a code of conduct

Creating the project schedule

Planning your resources

Legislation, guidelines, and policies

Funding for collaborations

Module summary

### **Module 2. Running and troubleshooting a collaboration – 2h30**

RUNNING A COLLABORATION:

Maintaining engagement

Keeping the project on track

TROUBLESHOOTING COMMON CHALLENGES:

Interpersonal and personnel issues

Ethical issues

Funding and resources

Module summary

### **Module 3. Outputs and next steps – 4h**

Defining 'outputs', 'value' and 'impact'

Collaborative research outputs

Publishing your results: authorship and writing

Publishing your results: submission and review

The value of research outputs

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Assessing and communicating impact

Ending a collaboration

Next steps

Module summary

Course summary

## **Additional resources**

**Blog post:** <https://masterclasses.nature.com/how-good-leaders-manage-collaborations/17650242>